

Marked Up Version of claim

WHAT IS CLAIMED IS:

1. [The] A system for improving asymmetric projection comprising:
 - a light source producing a light beam to form a light path;
 - 5 a projection lens which is disposed in the light path and projects an image [onto a screen];
 - a light valve inserted in the light path between the light source and the projection lens, which receives the light beam obliquely impinging from the light source to form a light spot, selects and reflects the [obliquely incident] light [beam]
 - 10 spot to the projection lens or predetermined directions; and
 - at least one [anamorphic] asymmetrically curved surface unit placed in the light path between the light source and the light valve, which has different curvatures on surface to offset the distortion of the light spot resulting from obliquely impinging.
- 15 [2. The system for improving asymmetric projection of claim 1, further comprising a mirror disposed in the light path between the light vale and the anamorphic surface unit.]
- [3. The system for improving asymmetric projection of claim 1, wherein the light valve is a Liquid Crystal On Silicon (LCOS).]
- 20 4. The system for improving asymmetric projection of claim 1, wherein the light valve is a Digital Micro-mirror Device (DMD).
- [5. The system for improving asymmetric projection of claim 1, wherein the light valve is a Liquid Crystal Display (LCD) panel.]
6. The system for improving asymmetric projection of claim 1, wherein the
- 25 [anamorphic] asymmetrically curved surface unit is an [anamorphic] asymmetrically curved lens.
- [7. The system for improving asymmetric projection of claim 1, wherein the anamorphic surface unit is a reflector.]
8. The system for improving asymmetric projection of claim 1, further comprising a
- 30 reflector, a converging lens, a condenser lens, a relay lens, and a mirror between the light source and the light valve, wherein the [anamorphic] asymmetrically curved surface unit can be any one surface of [a] the reflector, converging lens, condenser

lens, relay lens, [and]or mirror.

[9. The method for improving asymmetric projection, comprising:

a light source for producing a light beam to form a light path;

a light valve for receiving the light beam with oblique incidence to generate a light

5 spot with two asymmetric diagonals thereon; and

at least one anamorphic surface unit, in the light path between the light source and
the light valve, having a curvature for offsetting two asymmetric diagonals of
the light spot into a more normal rectangle.]

10 [10. The method for improving asymmetric projection of claim 9, wherein the
anamorphic surface unit is an anamorphic lens.]

[11. The method for improving asymmetric projection of claim 9, wherein the
anamorphic surface unit is a reflecting surface.]

15 12. The [method] system for improving asymmetric projection of claim [9]4, wherein
the [anamorphic] asymmetrically curved surface unit has a curvature in
predeterminate axis for elongating the Y-axial length of the light spot in on-state,
flat-state, and off-state in order to form non-overlapping elliptic light beams.